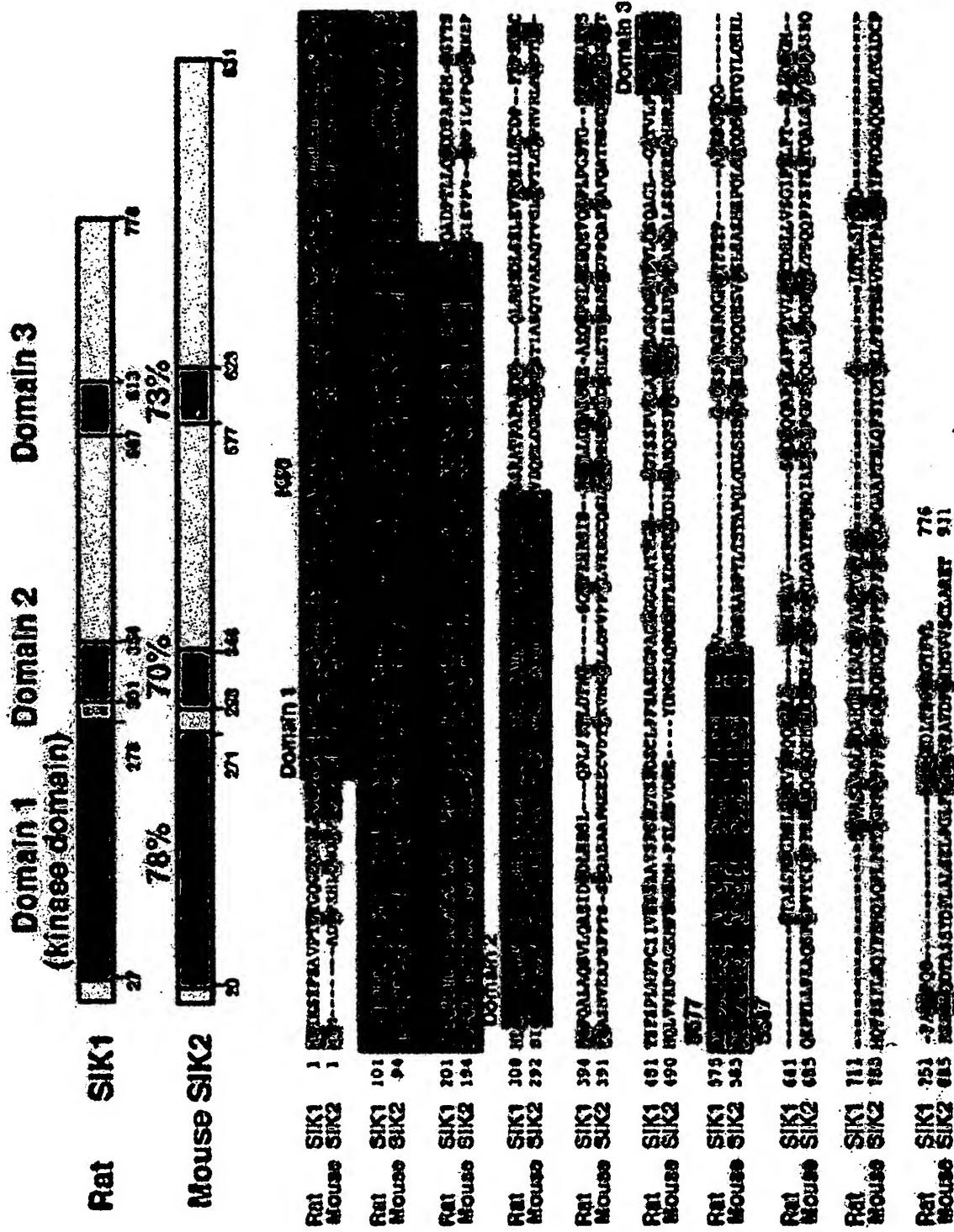


FIG. 1A



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FIG. 1B

mouse SIK2    1 MVMADGPPHLQRGPVNVGFYIIEGTLGHKIFAVVVLGRHETITKTEVAIKI  
 human SIK2    1 MVMADGPPHLQRGPVNVGFYIIEGTLGHKIFAVVVLGRHETITKTEVAIKI

EDKSQDIAVNLEKIVREVGIMMMLDHFIILKLYCVMETESMLYLVTEYAH  
 EDKSQDIAVNLEKIVREVGIMMMLDHFIILKLYCVMETESMLYLVTEYAH

MEIEIFDYLANHGPLNESEARPKFWLILSAVIYCHGKIVHFDLKAENLL  
 MEIEIFDYLANHGPLNESEARPKFWLILSAVIYCHGKIVHFDLKAENLL

INNNNIKIADFGFCNFFNTGELLATWGSPPYAAPEVFEGQQYEGPOLDI  
 INNNNIKIADFGFCNFFNTGELLATWGSPPYAAPEVFEGQQYEGPOLDI

WSMGVVLYVLVCGALFFIGPTLFILRQPVLEGRFFIPYFMSEDCEHLIRR  
 WSMGVVLYVLVCGALFFIGPTLFILRQPVLEGRFFIPYFMSEDCEHLIRR

FLVLDPSPKRLSIAOIKEHKWLIEVPVQPFILYPOEQNEPSIGEFNEQV  
 FLVLDPSPKRLSIAOIKEHKWLIEVPVQPFILYPOEQNEPSIGEFNEQV

ERLMHSLGIDQOKTIESLONKSYNHFAAIYFLVERLKSHRSSFPVEQLR  
 EPLMHSLGIDQOKTIESLONKSYNHFAAIYFLVERLKSHRSSFPVEQLR

EGRQRPPSTIAEQTVAKATVGLPTLHEPNVPLRSTLLPQASNVEAFS  
 EGRQRPPSTIAEQTVAKATVGLPTLHEPNVPLRSTLLPQASNVEAFS

FFITSSCQEEAAFMEEEIVITPKVNGCLLDPPVPPVLRKGQSLPSSMMET  
 FFITSSCQEEAAFMEEEIVITPKVNGCLLDPPVPPVLRKGQSLPSSMMET

SIDEGLETEGEAEEDPSOAFEAFOATRSGQPRHTLSEVTNQLVVMPGAGH  
 SIDEGLETEGEAEEDPSOAFEAFOATRSGQPRHTLSEVTNQLVVMPGAGH

IFSMNSDPSLESVISEYIM3AQEIDLNFLEISPSLKIIMLANQSPRMTS  
 IFSMNSDPSLESVISEYIM3AQEIDLNFLEISPSLKIIMLANQSPRMTS

FFISLRPANPAMQALSSCRPEAHNRSPVSFREGPPASDTELTOGIVAFFQ  
 PFISLRPPTNPAMQALSSCRPEAHNRSPVSFREGPPASDTELTOGIVAFFQ

HLCNLARTKGILELNKVQLIEQVSNALPITLTSTAPGLQDLSSSCPOEE  
 HLCNLARTKGILELNKVQLIEQVSNALPITLTSTAPGLQDLSSSCPOEE

ICQESVLSASHHPOLSFQISLETQYLOHRLQEFMLLPKAQSPFVY  
 VQESVLSASHHPOLSFQISLETQYLOHRLQEFMLLPKAQSPFVY

KEFPPPSLEQOLQEHPLQOKPLFLQOKSLQAYFNQMOIAESSYPGPSC  
 KEFPPPSLEQOLQEHPLQOKPLFLQOKSLQAYFNQMOIAESSYPGPSC

LALPHQETPLTSQPPSFSLTOALSPVLEFSSEOMYSSFLSQYPERHOLQ  
 LPLPDRQETPPSQQPPSFSLTOPLSPVLEFSSEOMYSSFLSQYPERHOLQ

FLPSTGFFPAPPPLPSCLQIIPFFFFFFFPQQLQAAHTSLQFSYDTC  
 FLPSLTSQPRAPP!PTLQIIPFFFFFFFPQQLQAAHTSLQFSYDTC

ELPSTTSVNPASCHYVIGATISNLIGAUCCFESGLDTASSYIPLA  
 ELPGAAAPADYEPFCQYVUCAASDLTGPIFHOPGLQEARSSVIFLA

SELPGGLFLCEMVEAVIYHNWCLARET  
 SELPGGLFLCEMLDAVIIYHNQYULVN

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Fig.2

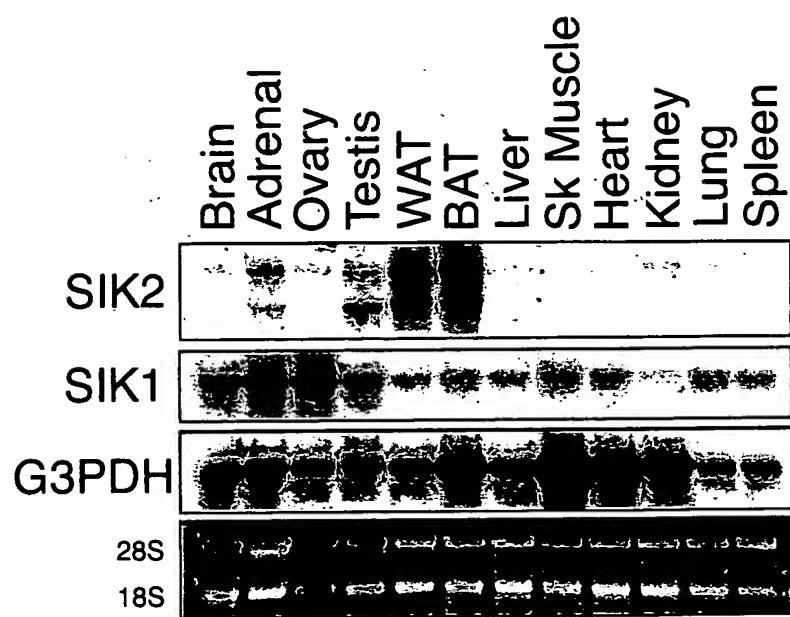


Fig.3

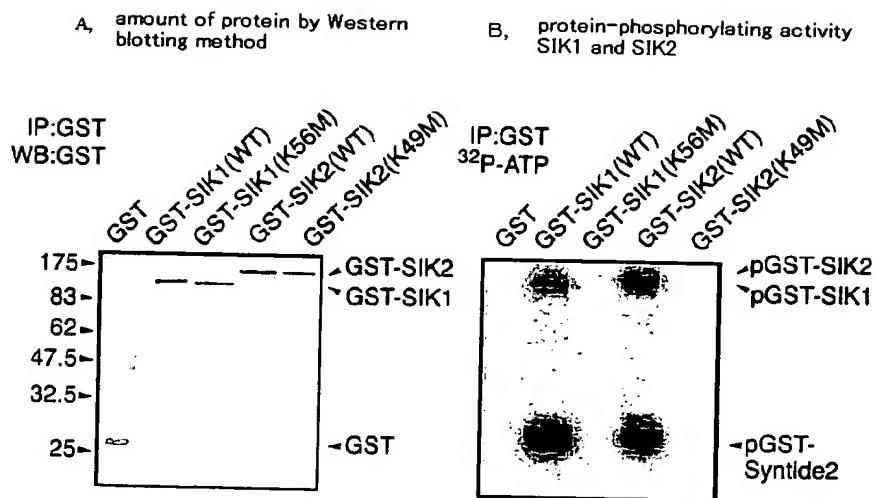
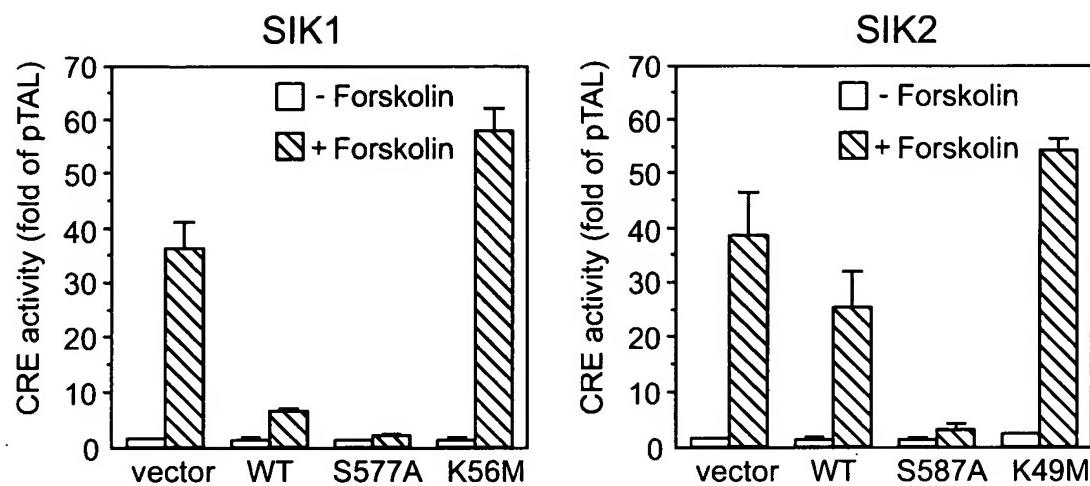
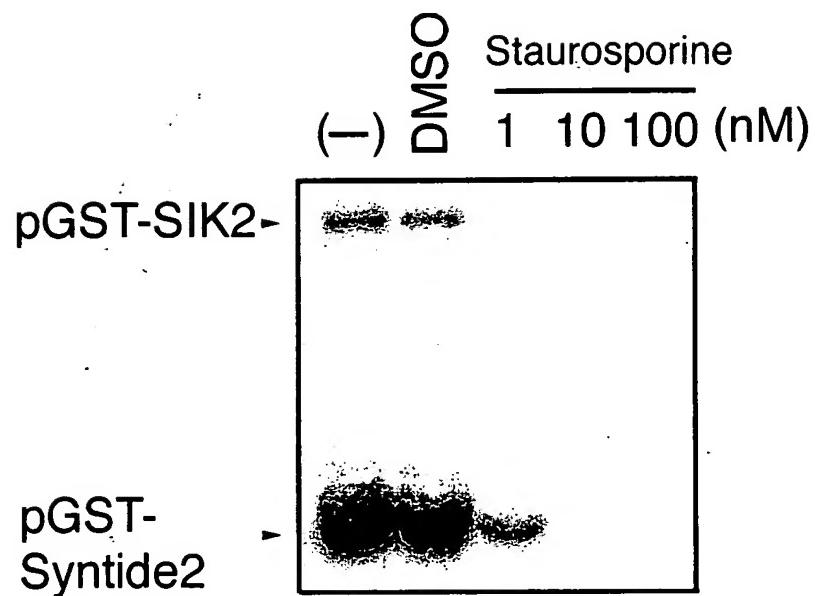


FIG. 4



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Fig.5



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Fig.6

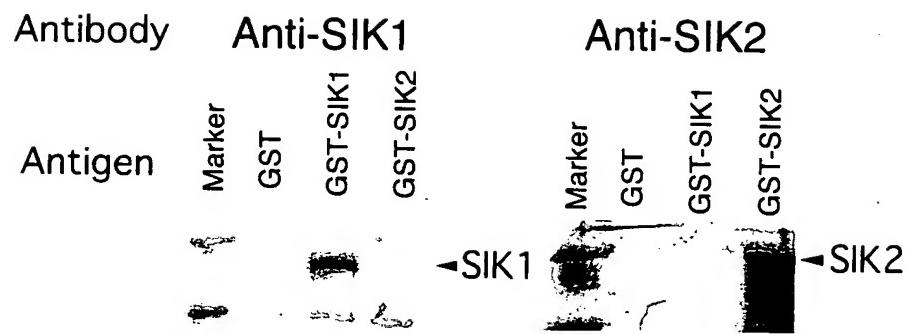


Fig.7

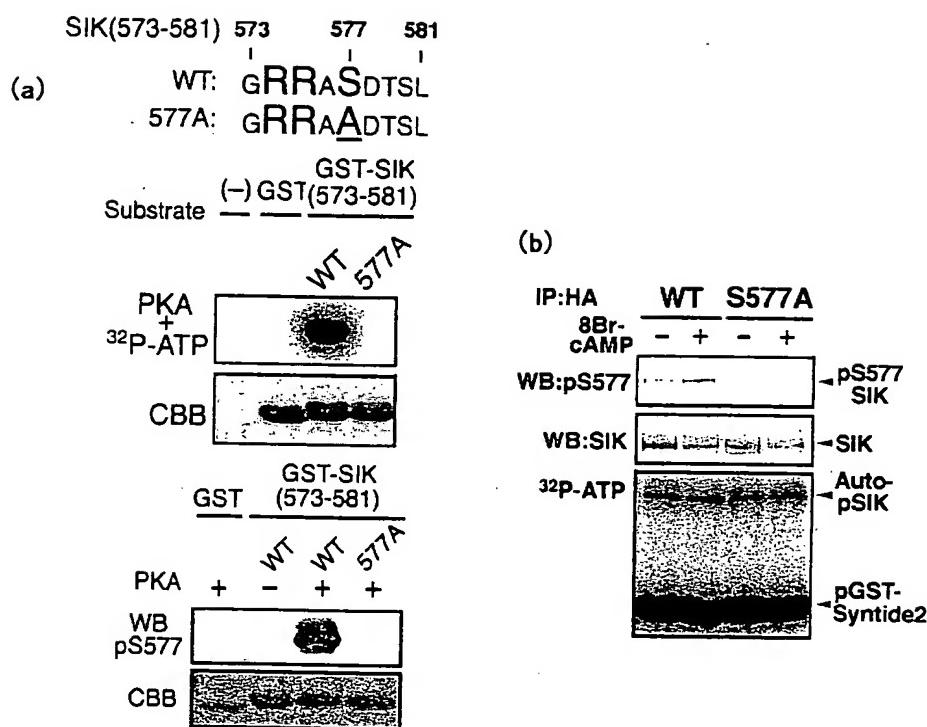


Fig.8

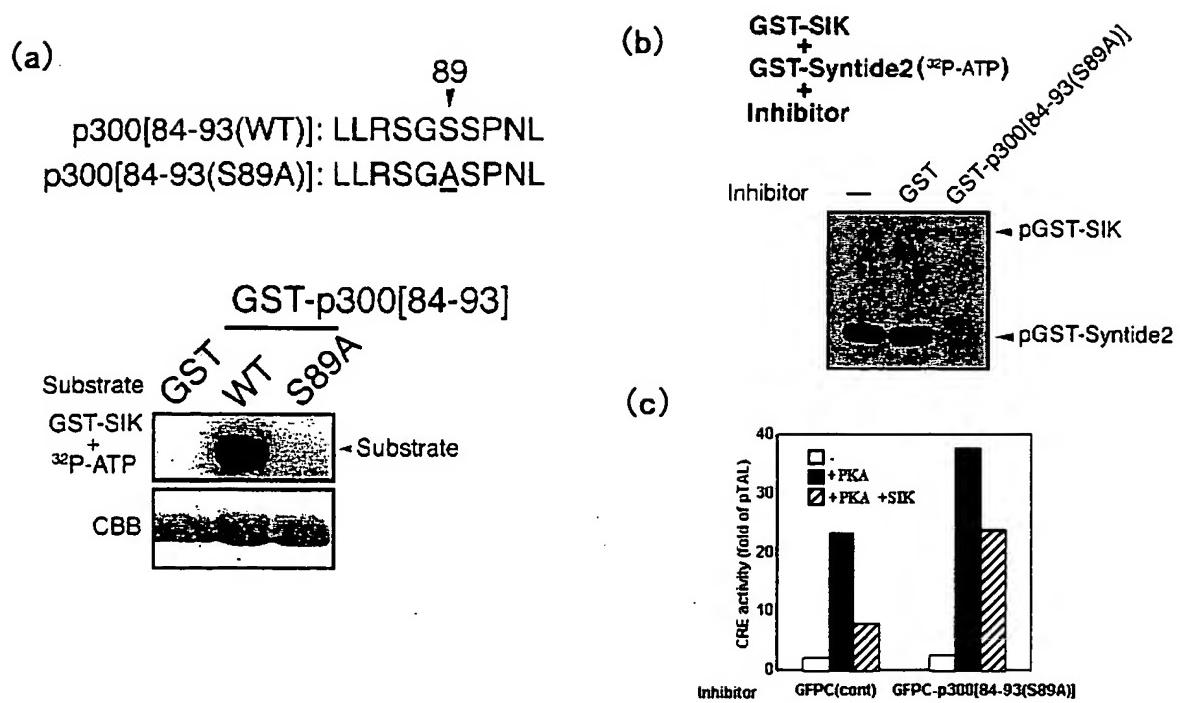


Fig.9

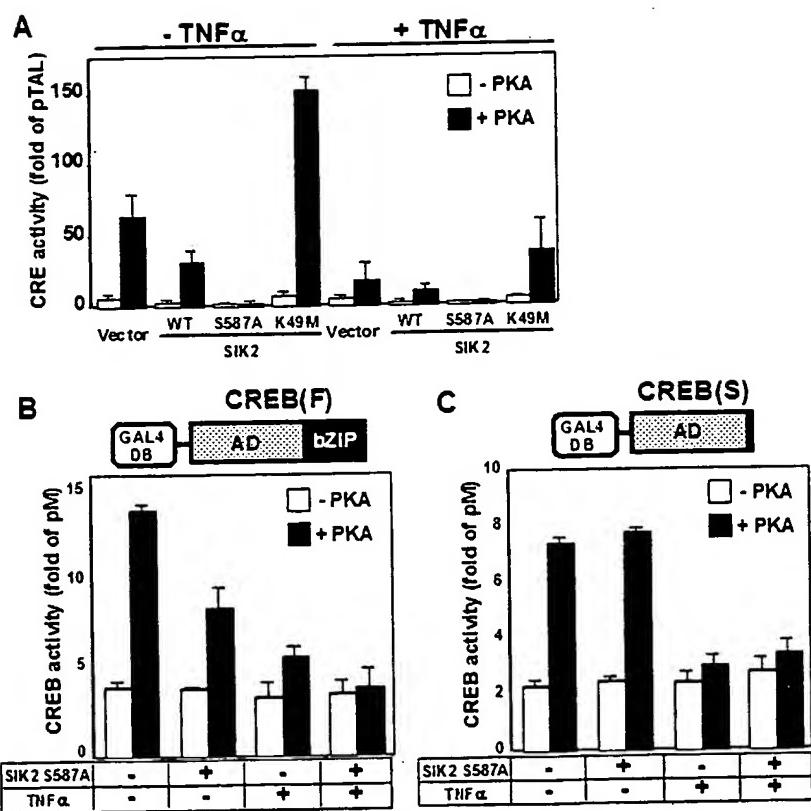
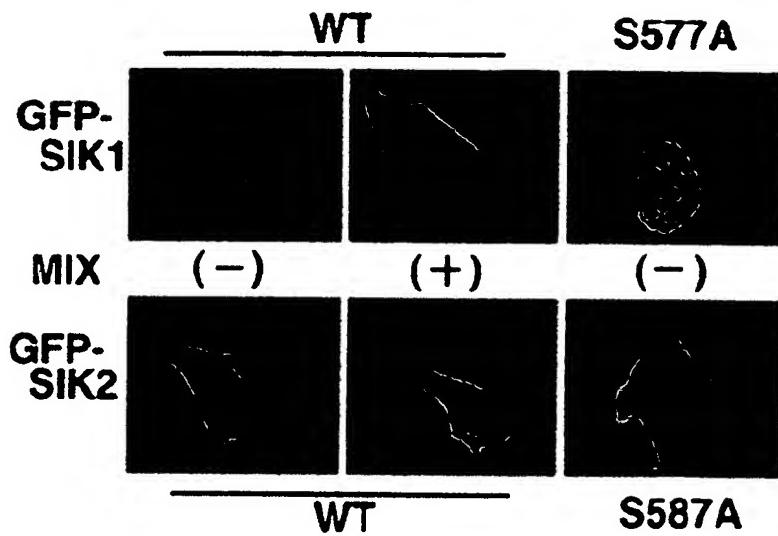


FIG. 10



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Fig.11

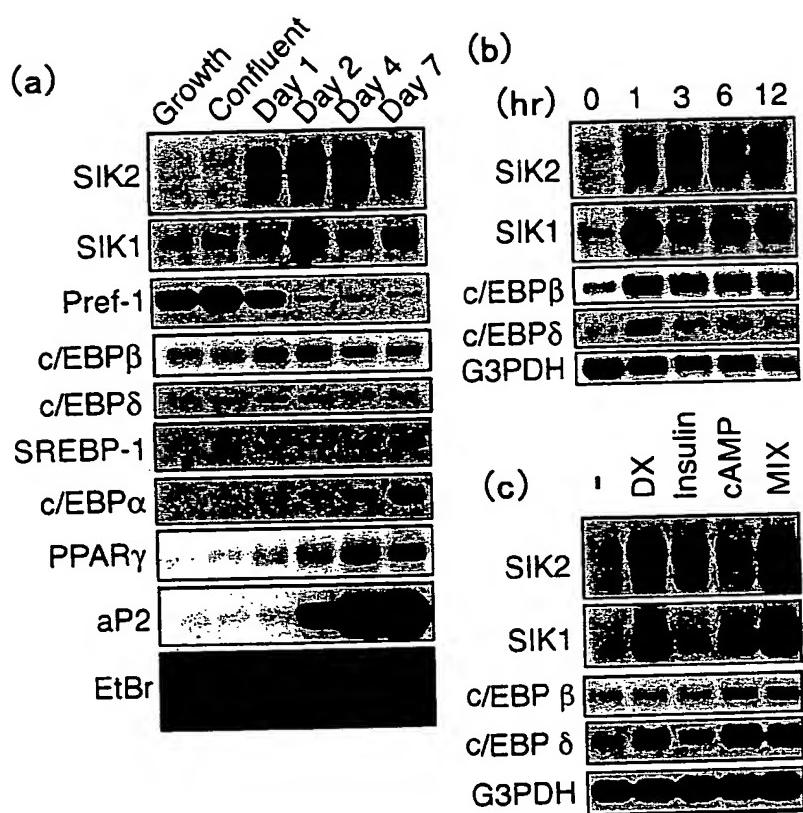


Fig.12

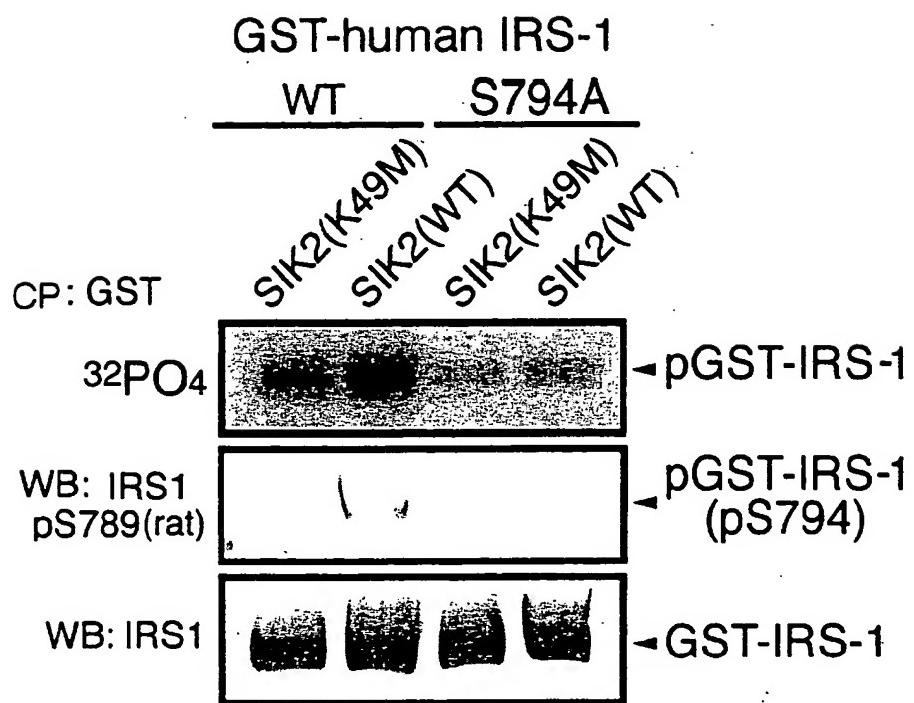
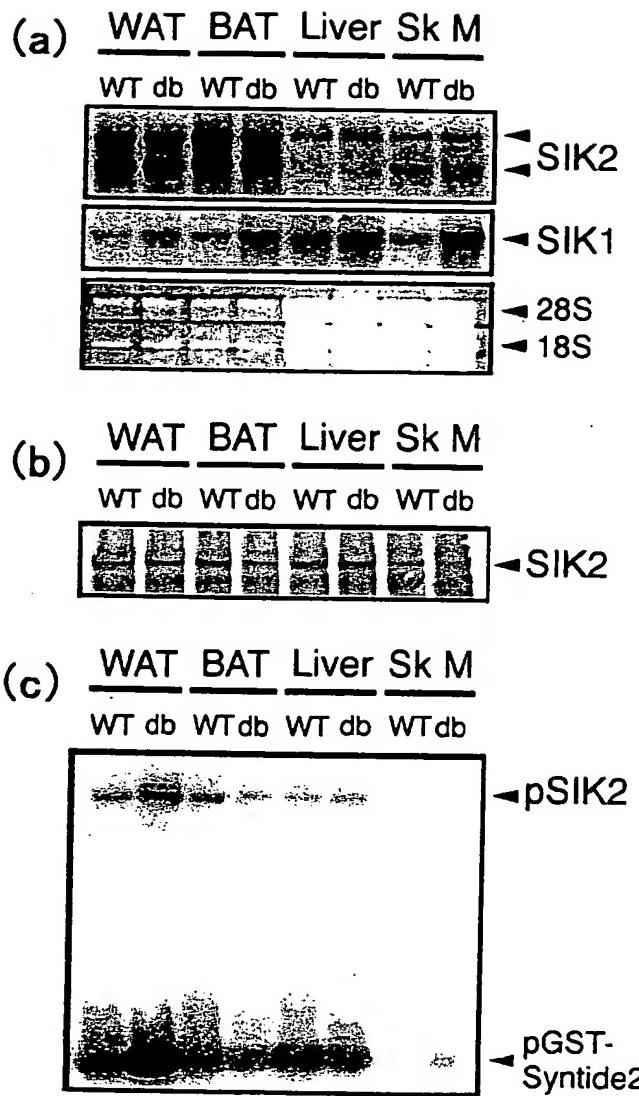
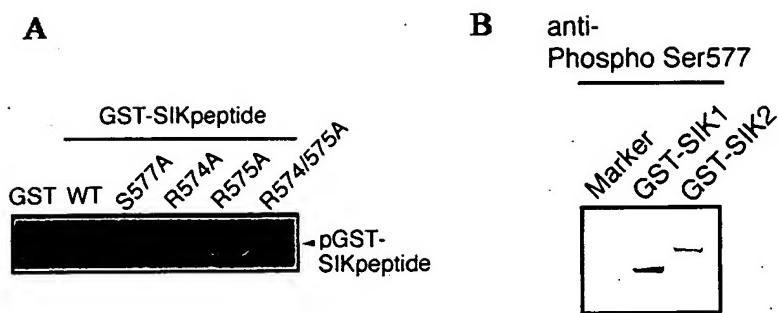


Fig.13



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Fig.14



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Fig.15

anti-  
Phospho Thr182-Ser186



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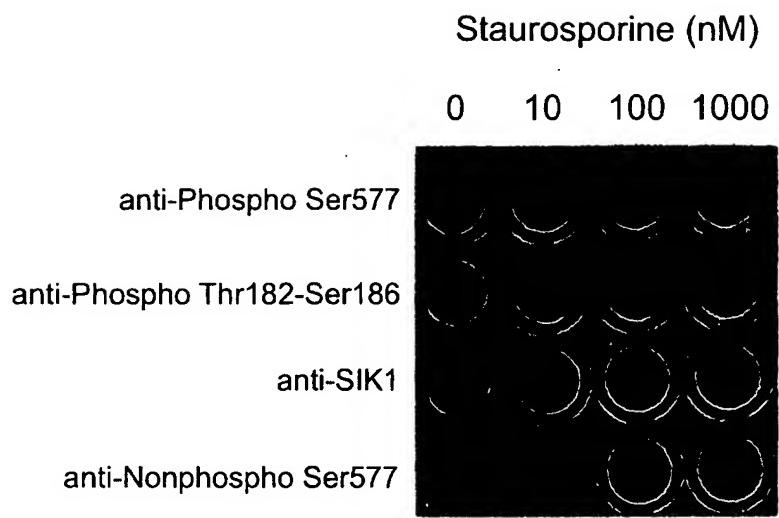


FIG. 16

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